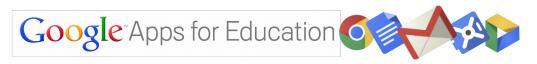


"Revenge of the Sheets" Learn to Google Sheets the Jedi Way!



HELLO!







My name is Jesse Lubinsky

I'm the Director of Technology and Chief Information Officer for the Irvington Union Free School District in Irvington, NY.

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or via email at jlubinsky@gmail.com or jesse@edtechteam.com

bit.ly/jesseresources



This Session...

<u>Title</u>

"Revenge of the Sheets"
Learn to Google Sheets the Jedi Way!

Description

The long-awaited sequel to "May the Forms Be With You

"May the Forms Be With You", this session will enable educators to wield the full power of Google Sheets. We will explore various spreadsheet techniques, Add-Ons (like Doctopus), as well as Google Forms and Google Classroom integration strategies that will help turn even the most basic spreadsheet users into full-fledged Google Sheets Jedi Masters!



Full

WARNING

This presentation contains excessive references to the film Star Wars and its affiliated sequels and prequels. While this session contains information designed to strengthen your knowledge of Google Sheets and empower you with new tools to use in your classrooms, those not strong with the Force may find themselves susceptible to the influence of the Dark Side.

A Long Time Ago...

PRESENTATION OF THE SALES ASS.

A real party of the state of th

A group of stellar educators the seat high Council to begin exploring how Google Sheets can help schools to reach the next tier of success.

the Force, those educators will look upon lessons from both the Jedi and Sith in order to harness the power of Sheets and become Google Sheets Jedi Masters!

Google Sheets Jedi

welcome to the Google Sheets Jedi Academy!



Will you succeed and become a Jedi or join the Dark Side?



Before We Get Started...



Getting Our Hands Dirty

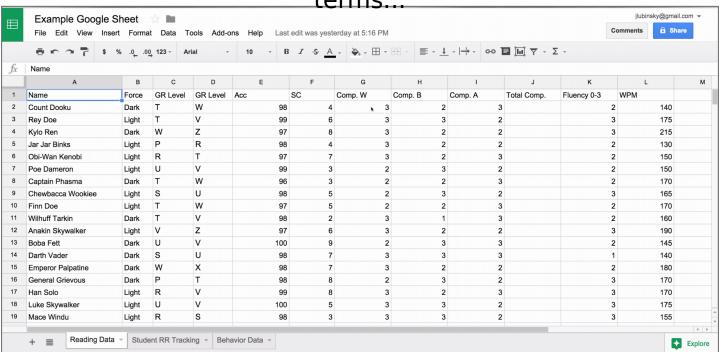
Practice Google Sheet



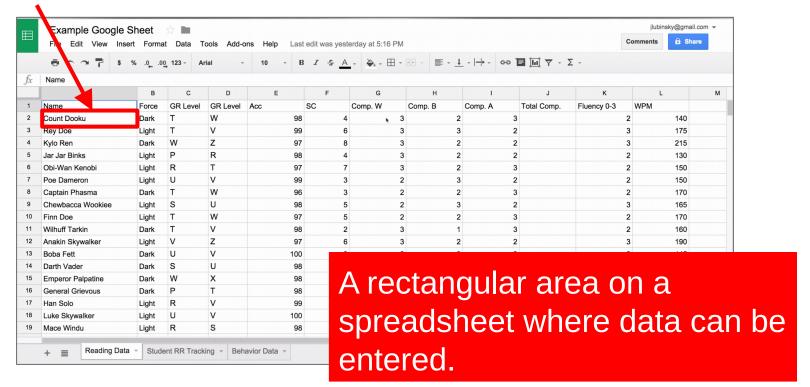


When you see the Empire logo in the upper left corner of a slide, it means there is a practice tab in the Practice Google Sheet for that topic.

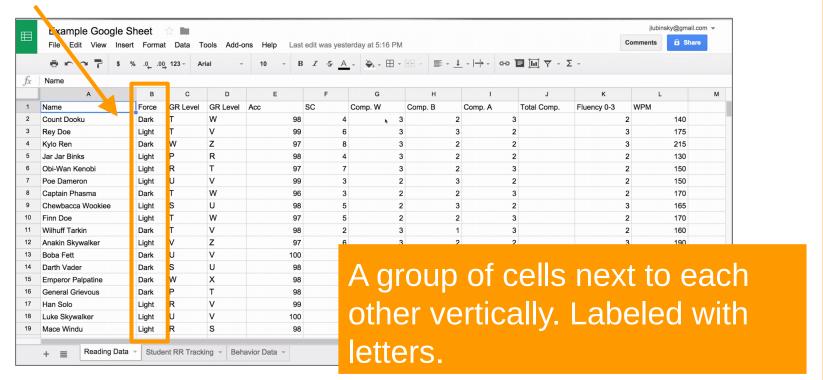
Let's review some important Google Sheets terms...



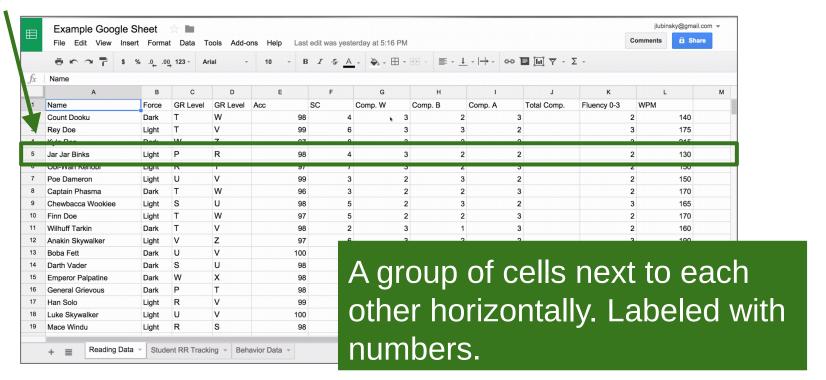
Cell



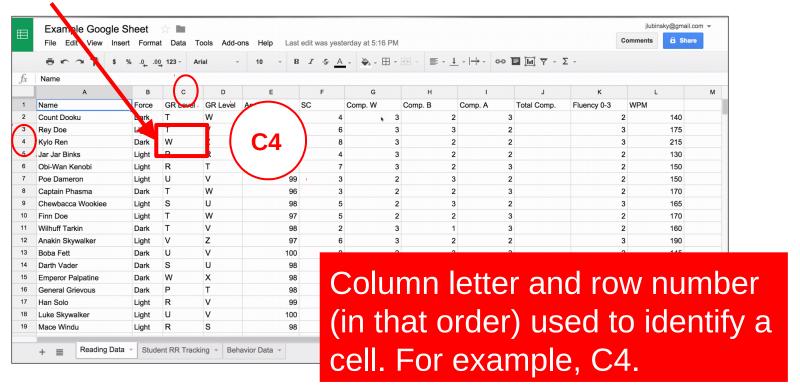
Column



Row

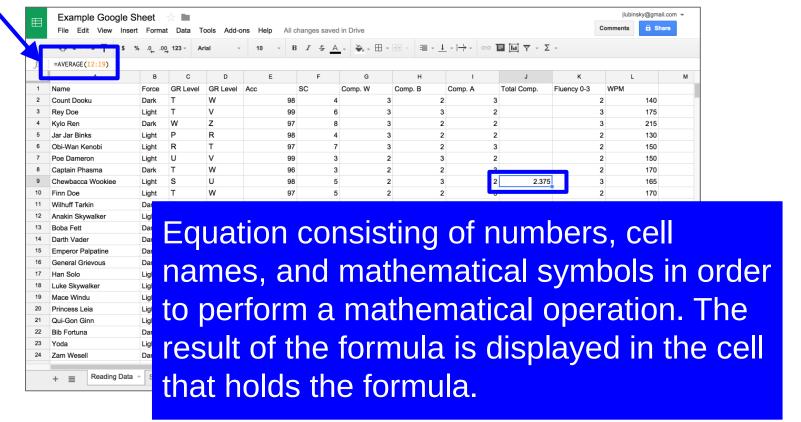


Cell Name



Formula

Sheets Vocabulary



Sort

Qui-Gon Ginn

Wilhuff Tarkin

Rev Doe

Zam Wesell

Yoda

Liaht

Liaht

Dark

U

Reading Data

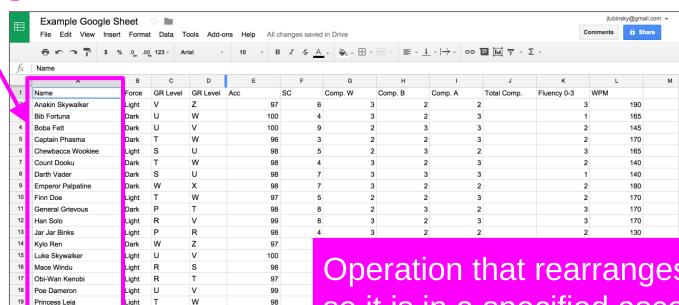
Student RR Tracking

Behavior Data

W

w

Sheets Vocabulary



97

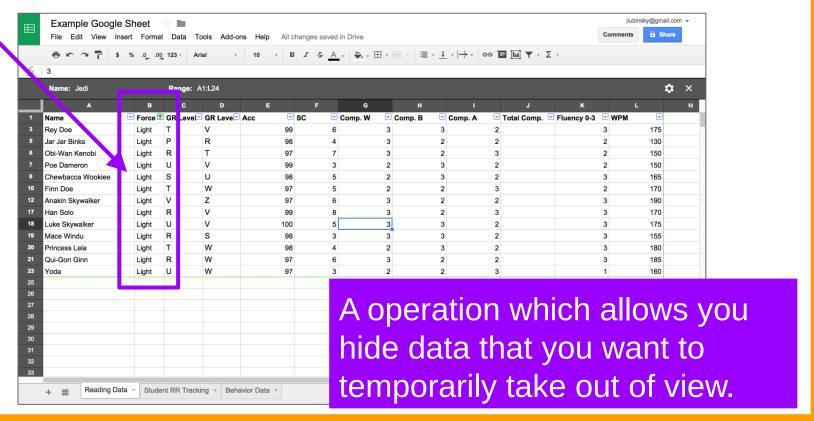
99

97

98

Operation that rearranges data so it is in a specified ascending or descending order, usually alphabetical or numerical.

Filter





Level 1: Death Star I (Basic Tips & Tricks)

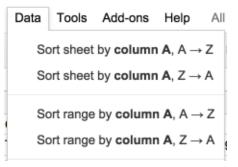


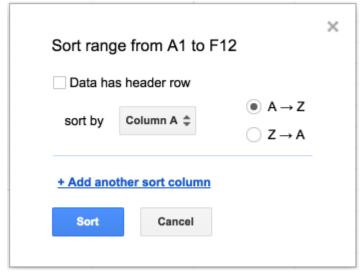
"That's no moon. It's a space station." - Obi Wan Kenobi

Sorting

Sorting can be done in several ways:

- Using the arrow next to the column header
- Using the **Data** menu
- Choosing Sort range underneath the **Data** menu



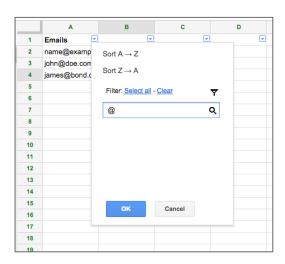


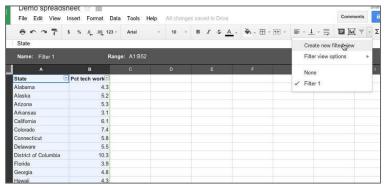
Filtering

Iltering can be done in several ways as well:

- Using the **Data** menu and choosing Filter or clicking the Filter button on the toolbar
- Creating custom Filter views under the **Data** menu







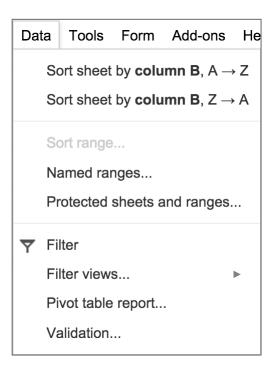


The Importance of Planning



Data

With <u>data validation</u>, you can festrict the values entered into a cell as well as provide warnings for invalid data.



Data validatio	n	×
Cell range:	Sheet1!B1	
Criteria:	List from a range	
On invalid data:	Show warning	
Appearance:	✓ Display in-cell button to show list	
	Show help: Click and enter a value from range 'Form Responses'! Reset	
Save	Remove validation Cancel	

Conditional Formatting

Conditional formatting allows you to have the text or background change color dynamically based on content.

	A	В
1	Paul	79
2	Mary	93
3	Kelly	70
4	Ann	73
5	Victoria	74
6	James	86
7	David	100
8	Janis	98
9	Rodie	78
10	Peter	83
11	Robert	74
12	Mike	86
13	Dan	98
14	Michael	85
15	Richard	93
16	Mark	75

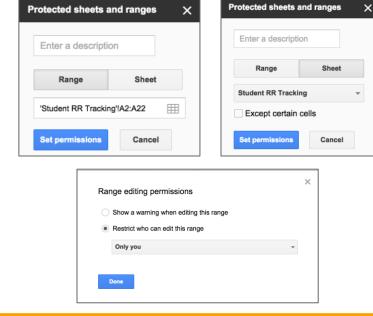
Conditional format	rules X
Single color	Color scale
Apply to range	III
Format cells if Cell is not empty	‡
Formatting style	
Default	~
B 1 5 A	· <u>\$</u> , ·
Done	Cancel

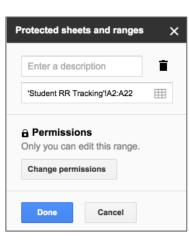
Single color	Color scale
Sirigle color	Color scale
Apply to range	
G9	#
Preview	
Default	-
Minpoint	
Min value 💠	<u>~</u>
Midpoint	
None ‡	≥ ,
Maxpoint	
Max value \$	x

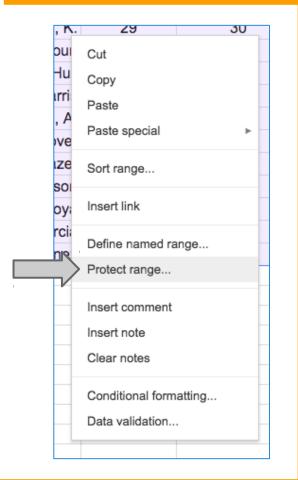
Cell is empty
Cell is not empty
Text contains
Text does not contain
Text starts with
Text ends with
Text is exactly
Date is
Date is before
Date is after
Greater than
Greater than Greater than or equal to
Greater than or equal to
Greater than or equal to Less than
Greater than or equal to Less than Less than or equal to
Greater than or equal to Less than Less than or equal to Is equal to
Greater than or equal to Less than Less than or equal to Is equal to Is not equal to
Greater than or equal to Less than Less than or equal to Is equal to Is not equal to Is between

Protect Range

You can <u>protect a range</u> of cells or an entire sheet of data. Right-click on a cell and you can choose "Protect range..."









Mapping Sheets

Mapping Sheets lets you take a list of addresses from Google Sheets and create a Google Map image of those addresses.

Video Walkthrough

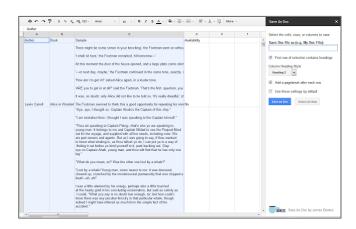






Save As Doc

Save As Doc allows you to convert any Google Sheets spreadsheet into a Google Doc for easy printing or improved readability.





Lab Scheduler

Lab Scheduler allows schools to easily setup sign-out sheets for resources such as labs and carts. Accommodates changing schedules also.

Video Walkthrough







The Power of the Merge



"We would be honored if you would join us."

Darth Vader

Yet Another Mail Merge

Yet Another Mail Merge is an incredibly powerful mail merge for use with Gmail. Among best features, you can track who opens messages.

Video Walkthrough

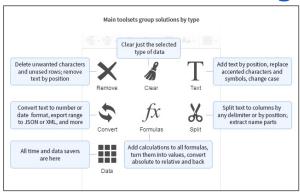


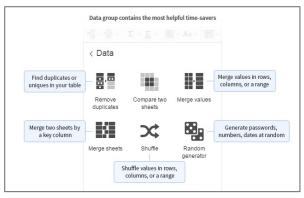


Power Tools

<u>Power Tools</u> offers one-click solutions for many tasks: Split cells, remove duplicates, change case, advanced find and replace, formulas, and more.

Video Walkthrough

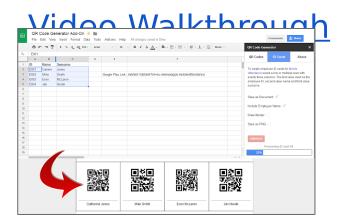






QR Code Generator

QR Code Generator allows you to quickly and easily create QR codes directly from a Google Sheet. Can save codes as one Doc or in PNG files.







No Messy Data Allowed!



"No disintegrations!"

Darth Vader

Remove Blank Rows

Remove Blank Rows will quickly remove all blank rows in a spreadsheet. This eliminates the time needed to parse through a spreadsheet as well as accidental deletions.

Video Walkthrough





Level 2: Death Star II (Powering Up)



"Now witness the firepower of this armed and fully operational battle station!" - Emperor Palpatine

Flubaroo

<u>Flubaroo</u> helps you quickly grade and analyze online assignments and assessments. Shows analytics and emails scores to students.

Demo (bit.ly/napastarwars)

<u>Instructions</u>
<u>Video Walkthrough</u>
<u>Flubaroo Homepage</u>





When Powerful Tools Combine



"Join me and together we can rule the galaxy!"

Darth Vader

Doctopus

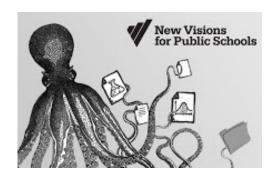
<u>Doctopus</u> allows teachers to share, organize, and assess student work in Google Drive through it's ability to manage files in Drive. It works beautifully on top of Google Classroom and its integration with <u>Goobric</u> (a Chrome Extension) adds even more powerful abilities to attach rubrics to student work.

Doctopus & Goobric Instructions

Doctopus Video Walkthrough

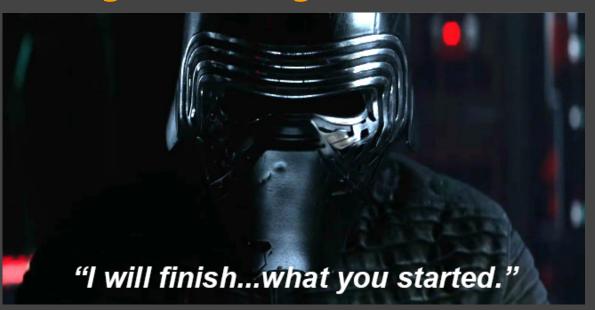
Goobric Video Walkthrough

Doctopus Homepage





Making "Automagic" from Sheets



Autocrat

<u>Autocrat</u> lets you take information from a Sheet to automatically populate and create a Google Doc or PDF file.

<u>Instructions</u>
<u>Video Walkthrough</u>
<u>New Visions Homepage</u>

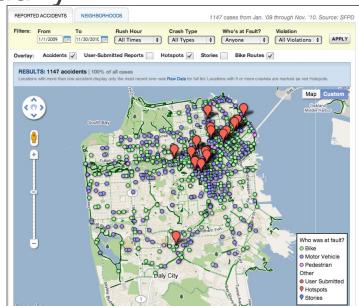




Fusion Tables

<u>Fusion tables</u> are an amazing way to have your data tell a story visually.

<u>Demo</u><u>Student Sample</u><u>Video Walkthrough</u><u>Example Gallery</u>

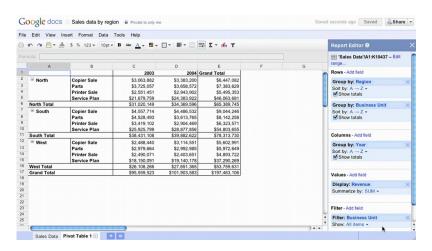




Pivot Tables

Pivot Tables are a function within Google Sheets which allows you to create quick summaries of your data.

Click "Pivot Table" on the **Data** menu to access them.





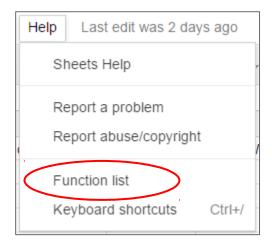
Level 3: Starkiller Base (Max Power)



"This fierce machine, upon which we stand, will bring an end to the Senate! To their cherished fleet!" - General

Function List

The function list provides you will a comprehensive list of all of the functions that work in Google Sheets.



Type ^	Name		Description			
Google	GOOGLETRANSLATE	GOOGLETRANSLATE(text, source_language, target language)	Translates text from one language into another/ Learn more 🖸			
Info	ISURL	ISURL(value)	Checks whether a value is a valid URL. Only available in the new Google Sheets ☑. Learn more ☑			
Text	PROPER	PROPER(text_to_capitali ze)	Capitalizes each word in a specified string. Learn more			
Lookup	p VLOOKUP		Vertical lookup. Searches down the first column of a range for a key and returns the value of a specified cell in the row found. Learn more 🔼			



IMPORTRANG F

<u>IMPORTRANGE</u> allows users to import a range of cells from another Google Sheets file. Once users are granted permission, any editor on the destination spreadsheet to pull from the source spreadsheet.

Range of values to import

=IMPORTRANGE(SpreadsheetKey, 'Form Responses'!B2:B43)



Key of spreadsheet you are pulling from

Sample Key
This Google Slides file's key is:
1H84G3LHJaklJoyOt9oq65Pzz3
H712s4ReHSUpuiB8qo

TRANSPOSE

The TRANSPOSE function allows you to swap the rows and columns of a range of data.

IKANS	POSE : (General L	Jsage			
1	2	3				
4	5	6				
Result		Formula				
1	4	=TRANSPOSE(A11:C12)				
	5					
2						
3	6					

First and last cell in range, separated by:

=TRANSPOSE('Form Responses'!A11:C12)

Name of the sheet from which you'd like to pull your data

(in single quotes, ending with !)



Let's Count Stuff



"Always two there are. No more, no less." Yoda

COUNTIF

The COUNTIF
function will
return a value
based on the
number of times
a criterion is met.

—	File	Edit	View	/ Insert	Forn	nat	Data	Too	ols	Add-ons	Н	elp	All c	hanç
	•	F	7	£ %	.0_	.00,	123 -	Aria	ıl	*	10	-	В	I
fx	=cou	NTIF(A	2:A,	">=45")										
		Α	₹	В		С				D		E		
1	Score				(Cano	didates				13			
2			45		F	Pass	ses:				7			
3			65											
4			37											
5			71											
6			73											
7			66											

COUNTIFS (which allows for multiple criteria) is available in the new Sheets.

=COUNTIF('Form Responses'!C2:C43,B1)

Data you'd like to count from

Cell that IDs the criteria for the count

Counting Functions

The <u>COUNT</u> function will return the number of values in a range

=COUNT(C2:C43)

Range of values

The <u>COUNTBLANK</u> function will return the number of blanks in a range

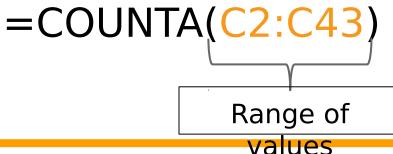
=COUNTBLANK(C2:C43)

Range of

More Counting Functions

The <u>COUNTUNIQUE</u> function will return the number of unique values in a range

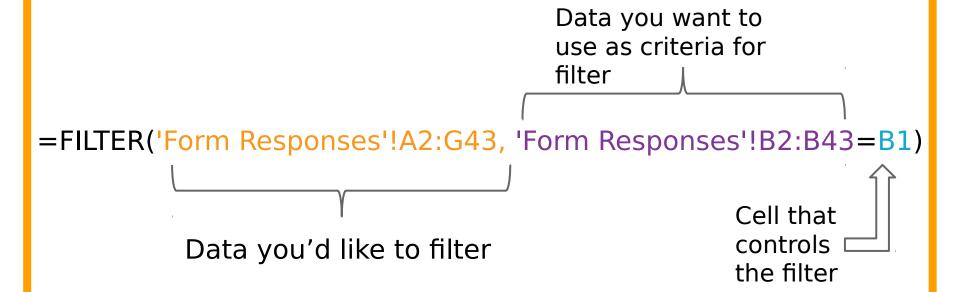
The <u>COUNTA</u> function will return the number of values in a range



FILTER

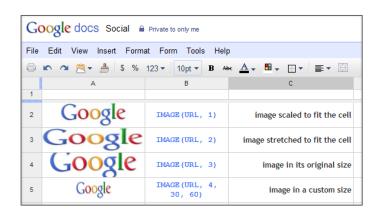


<u>FILTER</u> will return a filtered version of the source range. The data returned will only contain the rows and columns which meet the specified conditions.



IMAGE

The IMAGE function will allow images to be inserted into cells with several options.



=IMAGE(URL, mode)

Web address of image to insert

The following mode options are available:

1 (default) resizes image, maintains aspect ration

2 - compresses image

3 - original size, cropped

4 - custom size

CONGRATULATION



You are now a Google Sheets Jedi Master!

Any Qs?



You can find me:

Twitter/Instagram: ojlubinsky Email: jlubinsky@gmail.com

THANKS



Pre-session music: <u>"Sketches on Star Wars"</u> by The Trotter Trio

CREDITS

Special thanks to all the Google educators whose work made this presentation possible:

- □ Denise "D-Nice" Wills
- Samantha Morra
- □ Josh Harris
- Dawn Kasperson
- Brian Scheibach
- Scott Lotze
- Nancy Dressel
- ☐ The entire <u>EdTechTeam</u>!

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